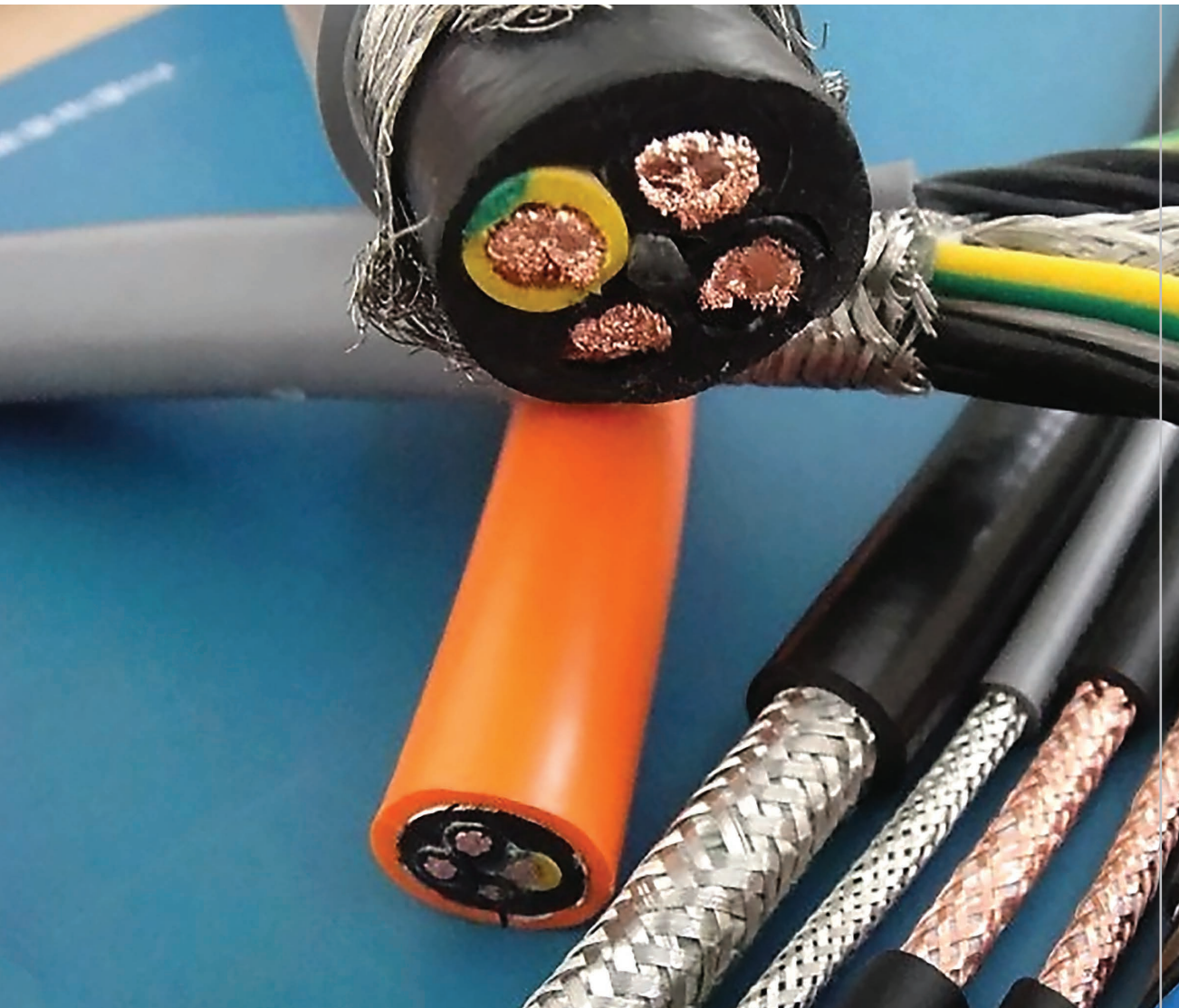




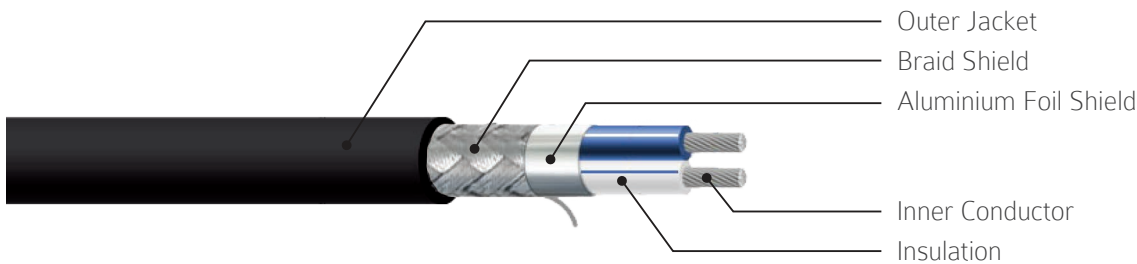
DATA COMMUNICATION

# ODRS4124 24AWG

1P Multi Conductor Cable

# ODRS4124 24AWG 1 Pair Multi Conductor Cable

## Cross Section



### Description

**ODRS4124 24AWG 1 Pair**  
- 24AWG stranding (7x32) TC conductor  
- Polyethylene insulation, twisted pairs  
- 100% aluminium foil, 90% TC braid shield  
- PVC jacket.

**Applications**  
- Low capacitance Full Duplex, RS-485 High Speed Data

### Mechanical Characteristics (Overall)

|                                  |               |
|----------------------------------|---------------|
| Operating Temperature Range      | -30°C ~ +80°C |
| Non-UL Temperature Rating        | 80°C          |
| Bulk Cable Weight                | 53.575kg/km   |
| Max. Recommended Pulling Tension | 321.605N      |
| Min. Bend Radius/Minor Axis      | 63.500mm      |
| Plenum (Y/N)                     | No            |

### Physical Characteristics (Overall)

|                                                       |                                                                     |
|-------------------------------------------------------|---------------------------------------------------------------------|
| <b>Inner Conductor</b><br>AWG<br>Stranding            | <b>Tinned Copper</b><br>24<br>7x32                                  |
| <b>Insulation</b><br>Insulation Diameter              | <b>Polyethylene</b><br>0.584mm                                      |
| <b>Outer Shield</b><br>Coverage<br>Coverage           | <b>Braid TC Copper</b><br>90%<br><b>Tape Aluminium Foil</b><br>100% |
| <b>Outer Jacket</b><br>Outer Jacket Thickness         | <b>PVC - Polyvinyl Chloride</b><br>0.889mm                          |
| <b>Overall Cable</b><br>Twists<br>Direction<br>Length | <br>15.749/m<br>Left hand<br>63.500mm                               |
| <b>Pair</b><br>Color                                  | White/Blue                                                          |

### Electrical Characteristics (Overall)

|                                            |                                      |
|--------------------------------------------|--------------------------------------|
| Nom. Characteristics Impedance             | 120 Ohms                             |
| Nom. Capacitance Conductor to Shield       | 41.9968pF/m                          |
| Nom. Velocity of Propagation               | 66%                                  |
| Nom. Delay                                 | 5.2496ns/m                           |
| Nom. Conductor DC Resistance @ 20 Deg.C    | 78.744Ohms/km                        |
| Nom. Outer Shield DC Resistance @ 20 Deg.C | 11.1554Ohms/km                       |
| Min. Structural Return Loss (5~950 MHz)    | 21 dB                                |
| Min. Structural Return Loss (950~3000 MHz) | 18 dB                                |
| Nom. Attenuation Frequency (Mhz)           | 1.000Mhz                             |
| Nom. Attenuation (dB/100m)                 | 1.969dB/100m                         |
| Max. Operation Voltage - UL                | 300V RMS Type CM<br>300V RMS AWM2919 |
| Max. Recommended Current                   | 2.1A per conductor<br>25° ambient    |